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PTO/SB/21 (08-03)

Approved for use through 08/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/605,966
		Filing Date	11/10/2003
		First Named Inventor	Yi-Cheng Yuan
		Art Unit	
		Examiner Name	
Total Number of Pages in This Submission	3	Attorney Docket Number	OTMP0058USA

ENCLOSURES (Check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please Identify below):
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Winston Hsu, Reg. No.: 41,526
Signature	
Date	12/16/2003

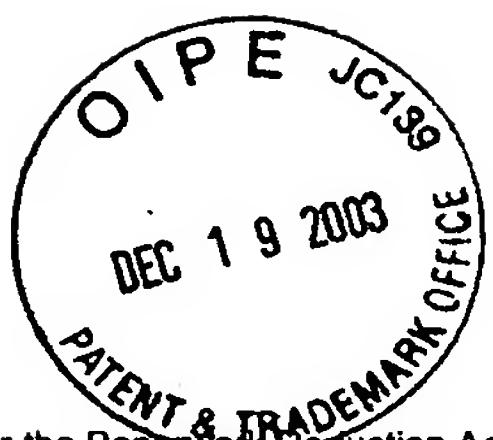
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PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032
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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 0.00)

Complete if Known

Application Number	10/605,966
Filing Date	11/10/2003
First Named Inventor	Yi-Cheng Yuan
Examiner Name	
Art Unit	
Attorney Docket No.	OTMP0058USA

METHOD OF PAYMENT (check all that apply)

Check Credit card Money Order Other None

Deposit Account:

Deposit Account Number
50-0801
Deposit Account Name

The Director is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) or any underpayment of fee(s)
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee			
1002 340	2002 170	Design filing fee			
1003 530	2003 265	Plant filing fee			
1004 770	2004 385	Reissue filing fee			
1005 160	2005 80	Provisional filing fee			
SUBTOTAL (1)		(\$ 0.00)			

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20** =	X	
			- 3** =	X	

Large Entity	Small Entity	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)		(\$ 0.00)

*or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath			
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet			
1053 130	1053 130	Non-English specification			
1812 2,520	1812 2,520	For filing a request for ex parte reexamination			
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action			
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action			
1251 110	2251 55	Extension for reply within first month			
1252 420	2252 210	Extension for reply within second month			
1253 950	2253 475	Extension for reply within third month			
1254 1,480	2254 740	Extension for reply within fourth month			
1255 2,010	2255 1,005	Extension for reply within fifth month			
1401 330	2401 165	Notice of Appeal			
1402 330	2402 165	Filing a brief in support of an appeal			
1403 290	2403 145	Request for oral hearing			
1451 1,510	1451 1,510	Petition to institute a public use proceeding			
1452 110	2452 55	Petition to revive - unavoidable			
1453 1,330	2453 665	Petition to revive - unintentional			
1501 1,330	2501 665	Utility issue fee (or reissue)			
1502 480	2502 240	Design issue fee			
1503 640	2503 320	Plant issue fee			
1460 130	1460 130	Petitions to the Commissioner			
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)			
1806 180	1806 180	Submission of Information Disclosure Stmt			
8021 40	8021 40	Recording each patent assignment per property (times number of properties)			
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))			
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))			
1801 770	2801 385	Request for Continued Examination (RCE)			
1802 900	1802 900	Request for expedited examination of a design application			
Other fee (specify) _____					
*Reduced by Basic Filing Fee Paid					
SUBTOTAL (3) (\$ 0.00)					

SUBMITTED BY

Name (Print/Type)	Winston Hsu	Registration No. (Attorney/Agent)	41,526	Telephone	886289237350
Signature				Date	12/16/2003

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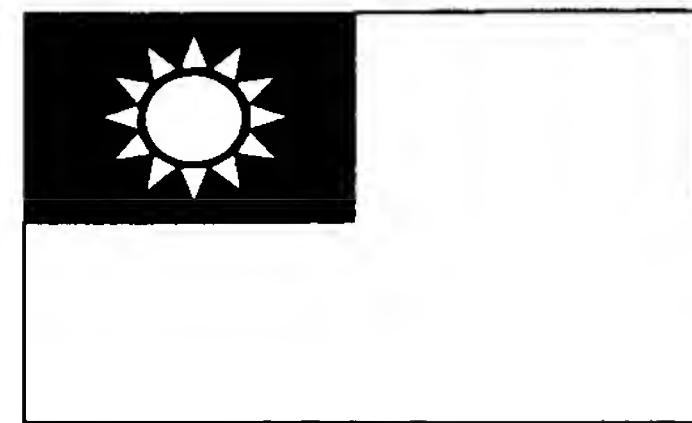
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Approved for use through 10/31/2002. OMB 0651-0032
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DECLARATION -- Supplemental Priority Data Sheet

Additional foreign applications:

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中華民國經濟部智慧財產局

INTELLECTUAL PROPERTY OFFICE
MINISTRY OF ECONOMIC AFFAIRS
REPUBLIC OF CHINA

茲證明所附文件，係本局存檔中原申請案的副本，正確無訛，
其申請資料如下：

This is to certify that annexed is a true copy from the records of this office of the application as originally filed which is identified hereunder:

申請日：西元 2002 年 12 月 27 日
Application Date

申請案號：091221719
Application No.

申請人：中強光電股份有限公司
Applicant(s)

局長

Director General

李 緯 生



發文日期：西元 2003 年 8 月 26 日
Issue Date

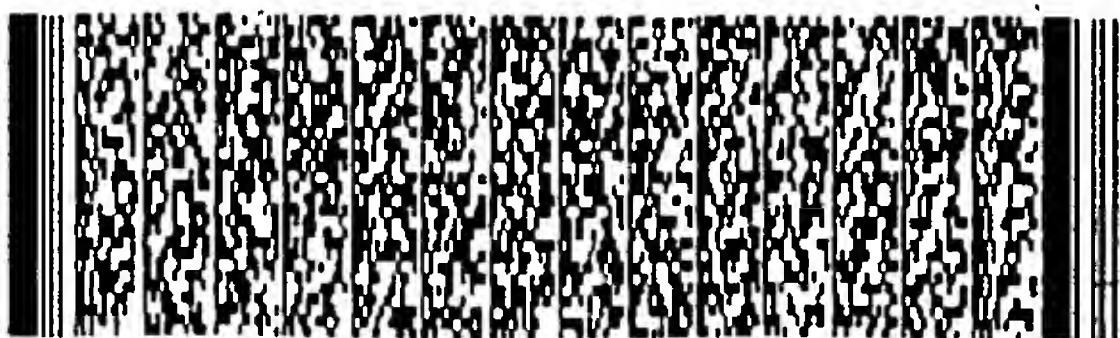
發文字號：09220856220
Serial No.

申請日期：	IPC分類
申請案號：	

(以上各欄由本局填註)

新型專利說明書

一 、 新型名稱	中 文	固定結構
	英 文	Fixing structure
二 、 創作人 (共1人)	姓 名 (中文)	1. 袁一誠
	姓 名 (英文)	1. Yuan Yi-Cheng
	國 籍 (中英文)	1. 中華民國 TW
	住居所 (中 文)	1. 新竹科學工業園區新竹市力行路11號
	住居所 (英 文)	1. No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.
三 、 申請人 (共1人)	名稱或 姓 名 (中文)	1. 中強光電股份有限公司
	名稱或 姓 名 (英文)	1. Coretronic Corporation
	國 籍 (中英文)	1. 中華民國
	住居所 (營業所) (中 文)	1. 新竹科學工業園區新竹市力行路11號 (本地址與前向貴局申請者相同)
	住居所 (營業所) (英 文)	1. No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.
代表人 (中文)	1. 張威儀	
	代表人 (英文)	1. Wade Chang



四、中文創作摘要 (創作名稱：固定結構)

一種固定結構係設置於一電控箱內，且包括二導引片及一止擋彈片，當一轉接模組置入電控箱後，利用導引片導引其沿預定方向移動至定位後，止擋彈片彈起並抵制於轉接模組背面而固定，以簡單組裝轉接模組；另外，於電控箱外側鎖入一螺帽時，由於轉接模組具有止擋彈片及導引片之固定機制，可較易鎖固螺帽。

陸、英文創作摘要 (創作名稱：Fixing structure)

Fixing structure

A fixing structure disposed in a controller box, comprises a pair of guide plates and a spring leave. The guide plates guide a tuner into the controller box, and the free end of spring leave faces the guide plates and blocks the rear surface of the tuner, so as to simply assemble the tuner. Otherwise the spring leave and guide plates limit the movements of the tuner, a nut can be fast screwed into the tuner.



四、中文創作摘要 (創作名稱：固定結構)

伍、(一)、本案代表圖為：第 4 圖

(二)、本案代表圖之元件代表符號簡單說明：

轉接模組	1	電控箱	1 0
連接孔	1 3	螺帽	1 4
導引片	2 1	止擋彈片	2 2

陸、英文創作摘要 (創作名稱：Fixing structure)



一、本案已向

國家(地區)申請專利

申請日期

案號

主張專利法第一百零五條準用
第二十四條第一項優先權

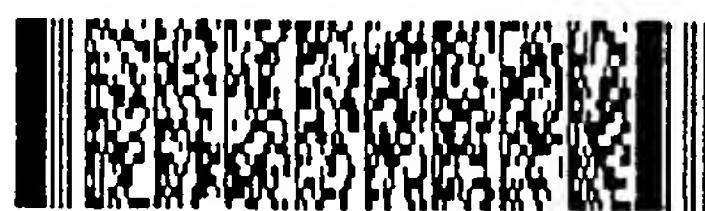
二、主張專利法第一百零五條準用第二十五條之一第一項優先權：

申請案號：

日期：

三、主張本案係符合專利法第九十八條第一項第一款但書或第二款但書規定之期間

日期：



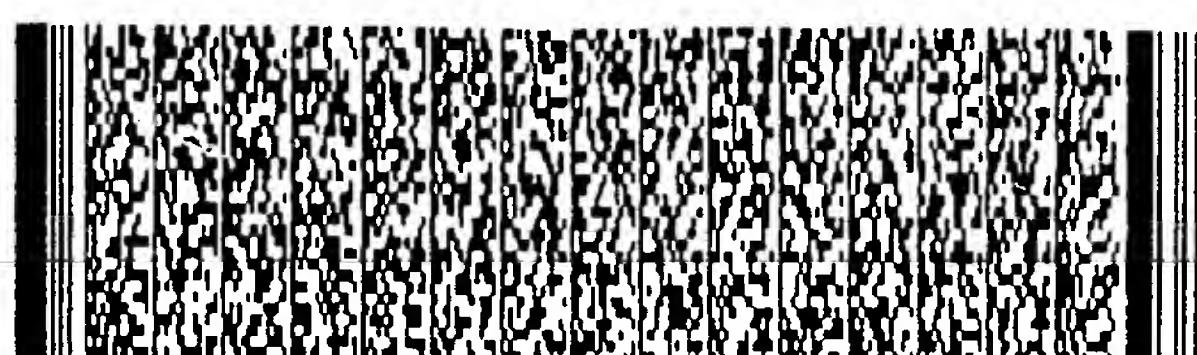
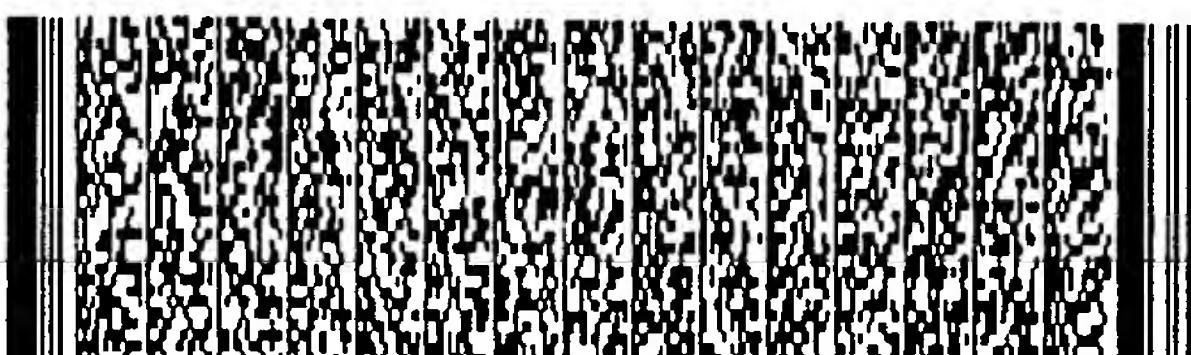
五、創作說明 (1)

【 新 型 所 屬 之 技 術 領 域 】

本創作係有關固定結構，尤其係指一種設置於電控箱內之固定結構。

〔先前技術〕

電子設備均需搭配轉接模組接收訊號及電控模組處理訊號以發揮效能，而為防止各模組受電磁干擾，目前絕大多數將各模組裝設於一封閉之電控箱內以與外界隔離，而此將帶來各模組裝上之問題，在量產及生產成本之考量下，如何能達到簡單快速組裝係為業界為提昇競爭力所必需考量的。



五、創作說明 (2)

【新型內容】

本創作之一目的，係提供一種固定結構，利用導引片之導引，以及彈片之抵制固定，而達到簡單組裝及提高組裝效率。

本創作之另一目的，係提供一種固定結構，使轉接模組可快速組裝於電控箱內，而提高組裝效率。

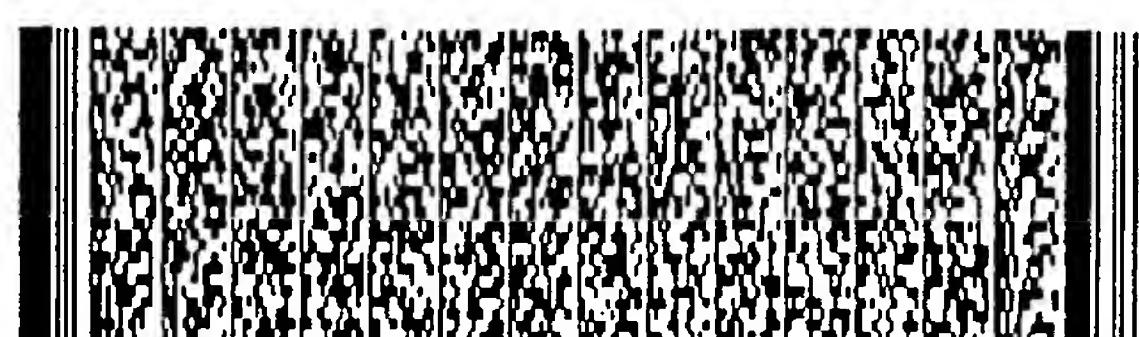
本創作之又一目的，係提供一種固定結構，提供螺帽鎖固於轉接模組時之固定機制，以方便快速組裝螺帽。

為達上述目的，本創作之固定結構係設置於一電控箱內，其包括至少一導引片以及至少一止擋彈片；導引片之導引面由端部止擋彈片彈起並固定於轉接模組。該導引片係相對設置於電控箱之內，並具有一固定端與一導引端，藉由導引片導引導引片，並於導引片之導引面與止擋彈片彈起並固定於轉接模組。

【實施方式】

有關本創作為達到上述目的，所採用之技術手段及其餘功效，茲舉二較佳實施例，並配合圖式加以說明如下：

請參閱第3圖所示，本創作固定結構係設置於一電控箱10內，其包括二導引片21及一止擋彈片22；其中該導引片21係相對垂設於電控箱10之底面11，其內側以形成一導引路徑，且導引片21與電氣箱10側壁面12間隔一距離設置，以避免側壁面12側緣阻擋

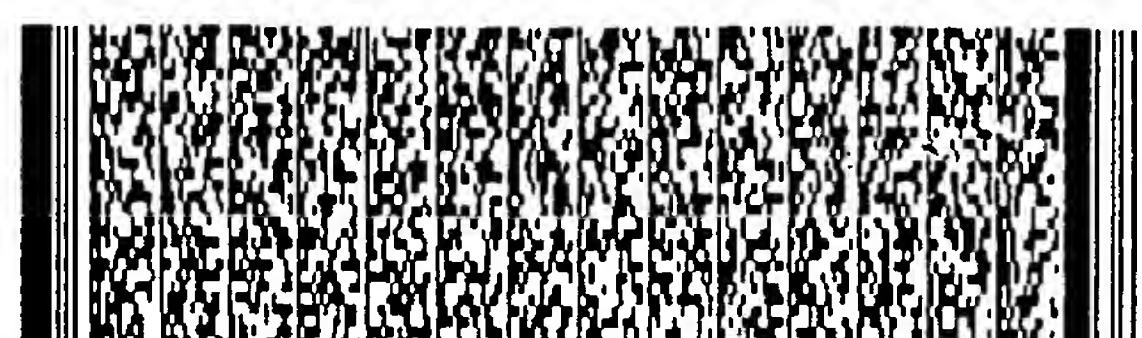
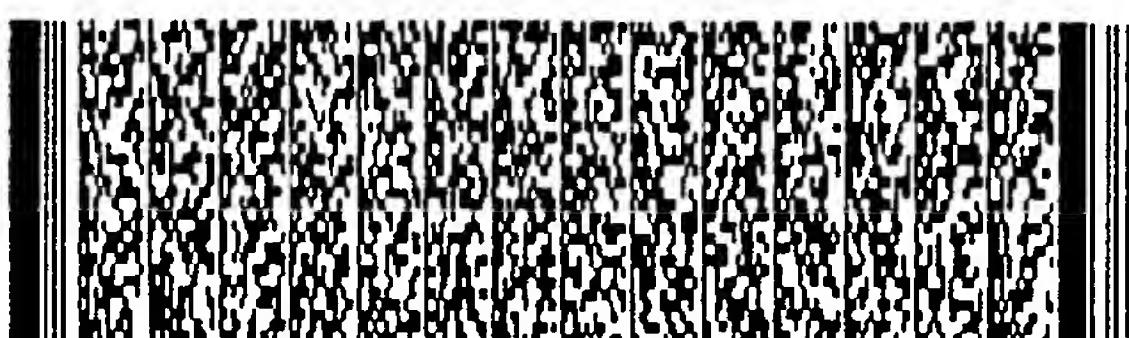


五、創作說明 (3)

組裝視線，另導引片 21 之一自由端 211 向另一導引片 21 弯曲呈直角，使兩導引片 21 之內壁面可為導引面，而作為組裝導引用；而止擋彈片 22 係設置於導引片 21 間之後方，即位於導引路徑上，止擋彈片 22 一固定端 221 固設於電氣箱 10 底面 111，一自由端 222 係面向導引片 21 並凸出與底面 111 呈同一平面，壓力消失後，即回復至與底面 111 呈一夾角。

請參閱第4圖所示，係本創作固定結構應用於組裝先置外頭2位置於電控箱1_0之一側壁面1_2，相對於輸入接頭2位組1依轉接模組1接頭2平置於電導引片21之內壁面（即導引面）後置入，而限制轉接模組1之上側邊緣對準導引片21之Y及Z軸向移動，並導引轉接模組1往X軸方向移動，此時轉接模組1施壓於止擋彈片2_2上，當推入轉接模組1至輸入接頭2套入連接孔1_3後，止擋彈片2_2之受壓消失，此時止擋彈片2_2彈起並抵制於轉接模組1之背面，則限制轉接模組1之X軸向移動，而達到完成組裝轉接模組1。

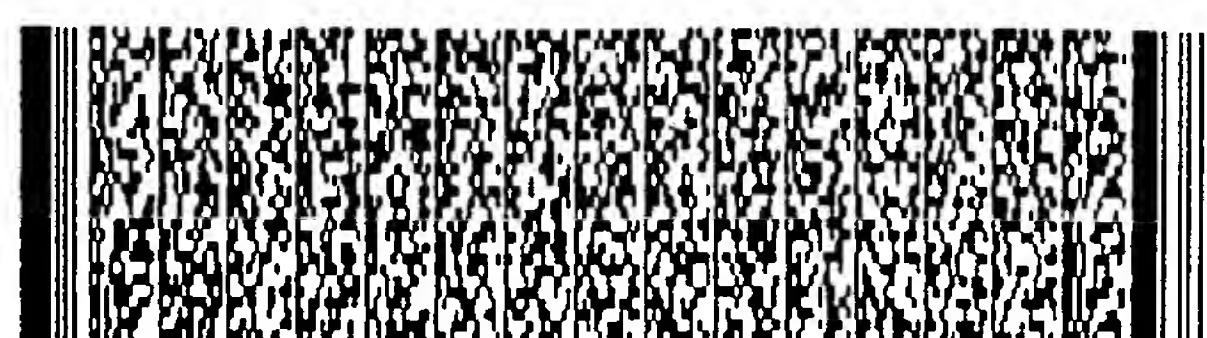
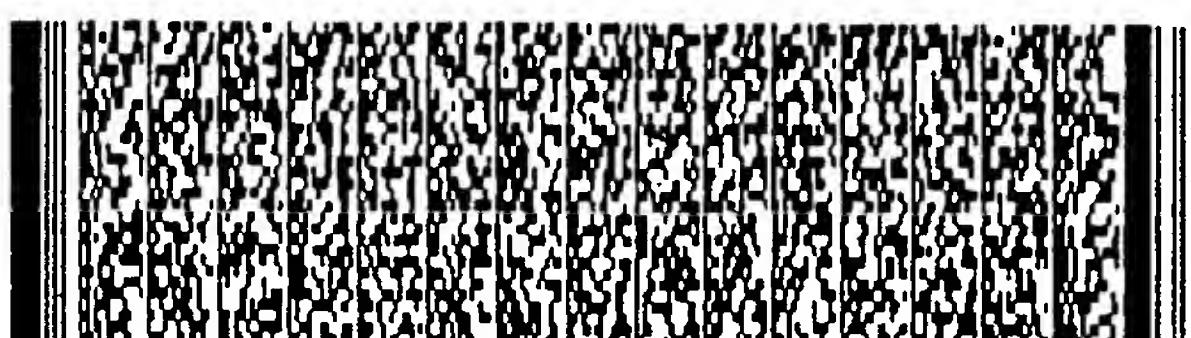
藉由導引片 21 之設置，而導引轉接模組 1 沿單一
軸向移動，定位後再利用彈片彈起並抵制於轉接模組 1



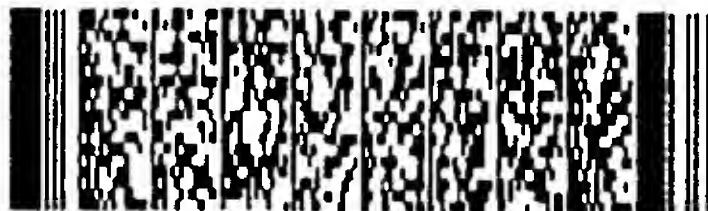
五、創作說明 (4)

，而達到固定轉接模組 1，因此，可達到簡單組裝而提高組裝效率；導引片 21 與側壁面 12 間具有一距離，故對準時不會受到電控箱 10 側緣之阻擋，因此組裝之抵可輕易對準導引片 21 置入，且利用止擋彈片 22 方便快速；請制固定可免去用螺帽鎖固，因此，組裝上方便快速；請參閱第 5 圖所示，另為了加強轉接模組 1 之穩固，亦可於電控箱 10 外側鎖入一螺帽 14，而在鎖固過程之中，由於轉接模組 1 具有止擋彈片 22 及導引片 21 之鎖固，所以易於鎖固螺帽 14。

以上所述，僅用以方便說明本創作之較佳實施例，本創作之範圍不限於該等較佳實施例，凡依本創作所做的任何變更，於不脫離本創作之精神下，皆屬本創作申



五、創作說明 (5)
請專利範圍。



圖式簡單說明

【圖式簡要說明】

第1圖，係習知轉接模組與電控箱之分解圖。
第2圖，係習知轉接模組與電控箱之組合示意圖。
第3圖，係本創作第一實施例固定結構之立體圖。
第4圖，係本創作第一實施例固定轉接模組之示意圖。
第5圖，係本創作第一實施例鎖固螺帽之動作示意圖。
第6圖，係本創作第二實施例固定結構之立體圖。
第7圖，係本創作第二實施例固定轉接模組之示意圖。

【圖號簡要說明】

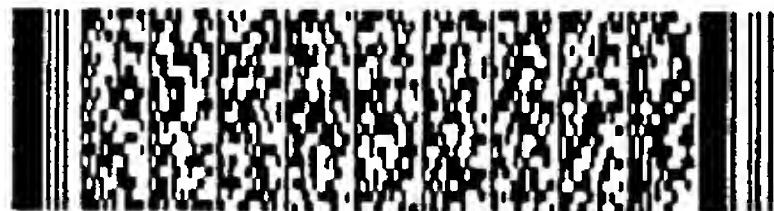
轉接模組	1
輸入接頭	2
電控箱	10
底面	11
側壁	12
連接孔	13
螺帽	14
側壁面	15
導引片	21
自由端	211
止擋彈片	22
固定端	221
自由端	222
導引片	31
自由端	311



圖式簡單說明

止 檔 彈 片 3 2

自 由 端 3 2 1



六、申請專利範圍

- 1、一種固定結構，係設置於一電控箱內，其包括：至少一導引片，係垂設於該電控箱內以形成導引面；以及至少一止擋彈片，係具有一固定端與一自由端，該固定端固設於該電氣箱底面，該自由端係向導引片。
- 2、如申請專利範圍第1項所述之固定結構，其中該導引片具有一彎曲直角之自由端。
- 3、如申請專利範圍第1項所述之固定結構，其中該導引片與該電控箱係一體製成者。
- 4、如申請專利範圍第1項所述之固定導引面。
- 5、如申請專利範圍第1項所述之固定結構，其中該導引片之申請之專利範圍內側面形成導引面。
- 6、如申請專利範圍第1項所述之固定結構，其中該止擋彈片係設於該導引片之後方。
- 7、如申請專利範圍第1項所述之固定結構，其中該導引片為二個並置並設於該電氣箱內。
- 8、如申請專利範圍第1項所述之固定結構，更包括至少一連接孔開設於該電氣箱之一壁面，該導引片係設於該連接孔後方兩側，且該止擋彈片係設於該導引片間。
- 9、一種應用申請專利範圍第1項固定結構之轉接模組組裝結構，其包括：

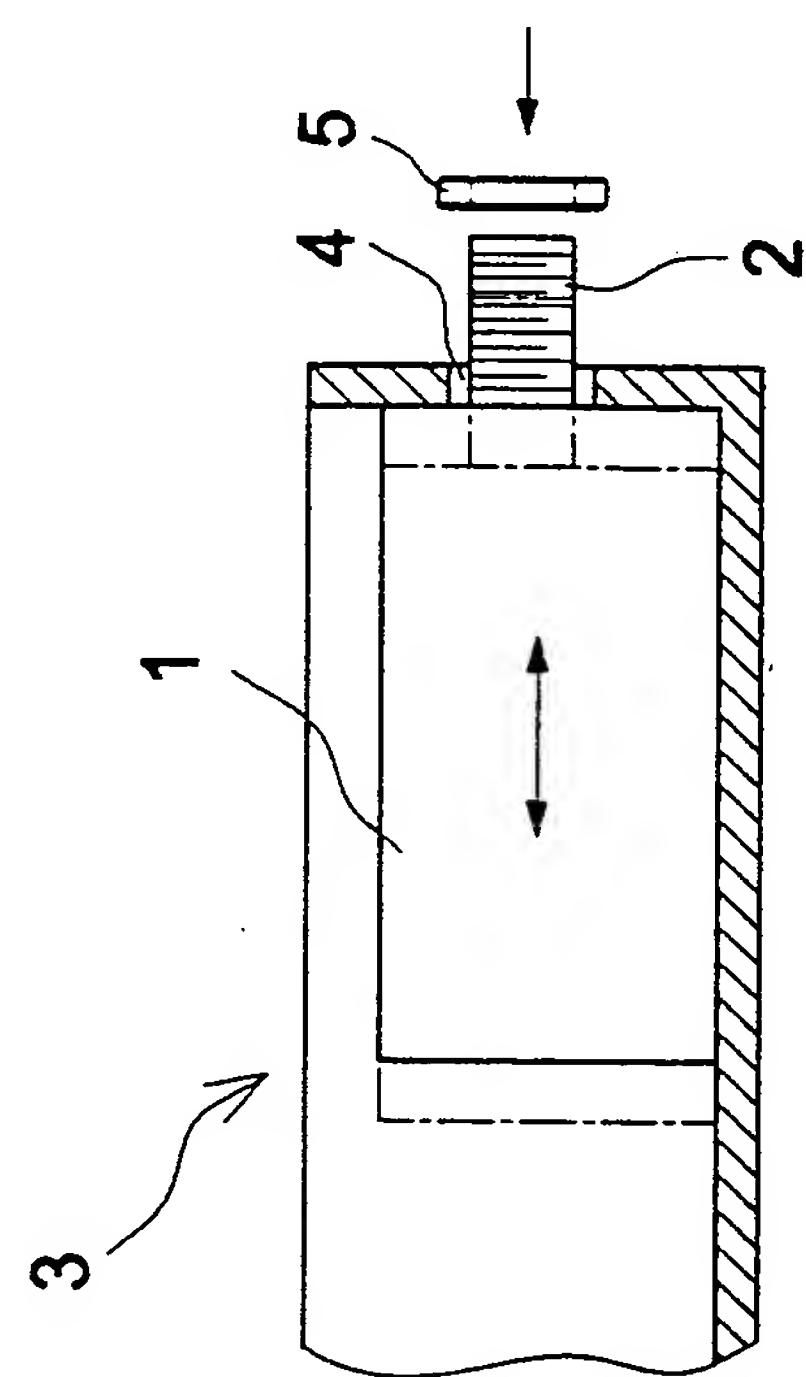
六、申請專利範圍

一固定結構，係具有至少一導引片及止擋彈片；以及

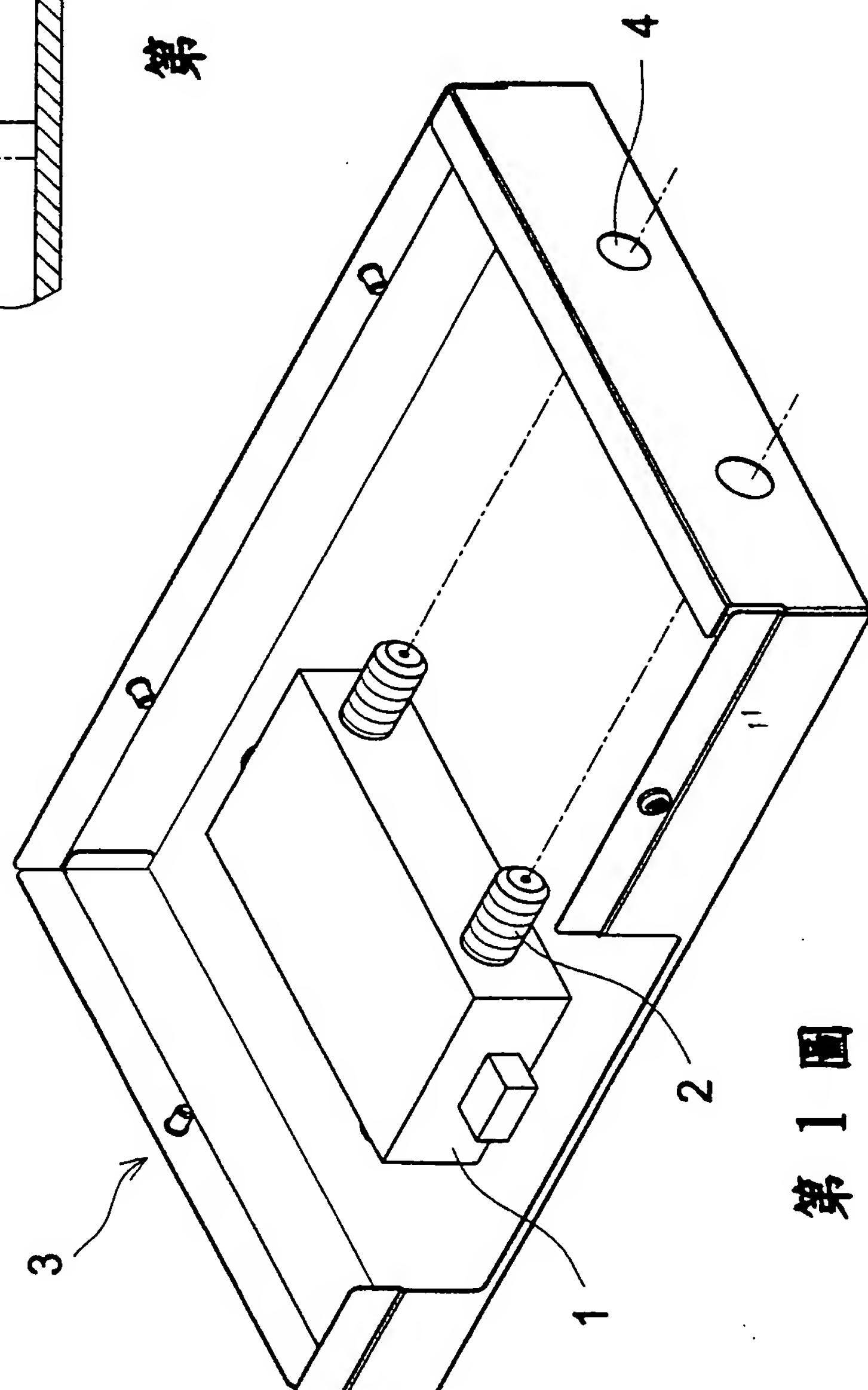
一轉接模組，係包括一矩形盒體及至少一輸入接頭，矩形盒體前端上緣置於該導引片間，且該止擋彈片抵制於該矩形盒體其背面。

- 10、如申請專利範圍第9項所述之轉接模組組裝結構，其中該轉接模組可為一調諧器。
- 11、如申請專利範圍第9項所述之轉接模組組裝結構，其中該導引片之位置係依矩形盒體前端上緣尺寸而設。

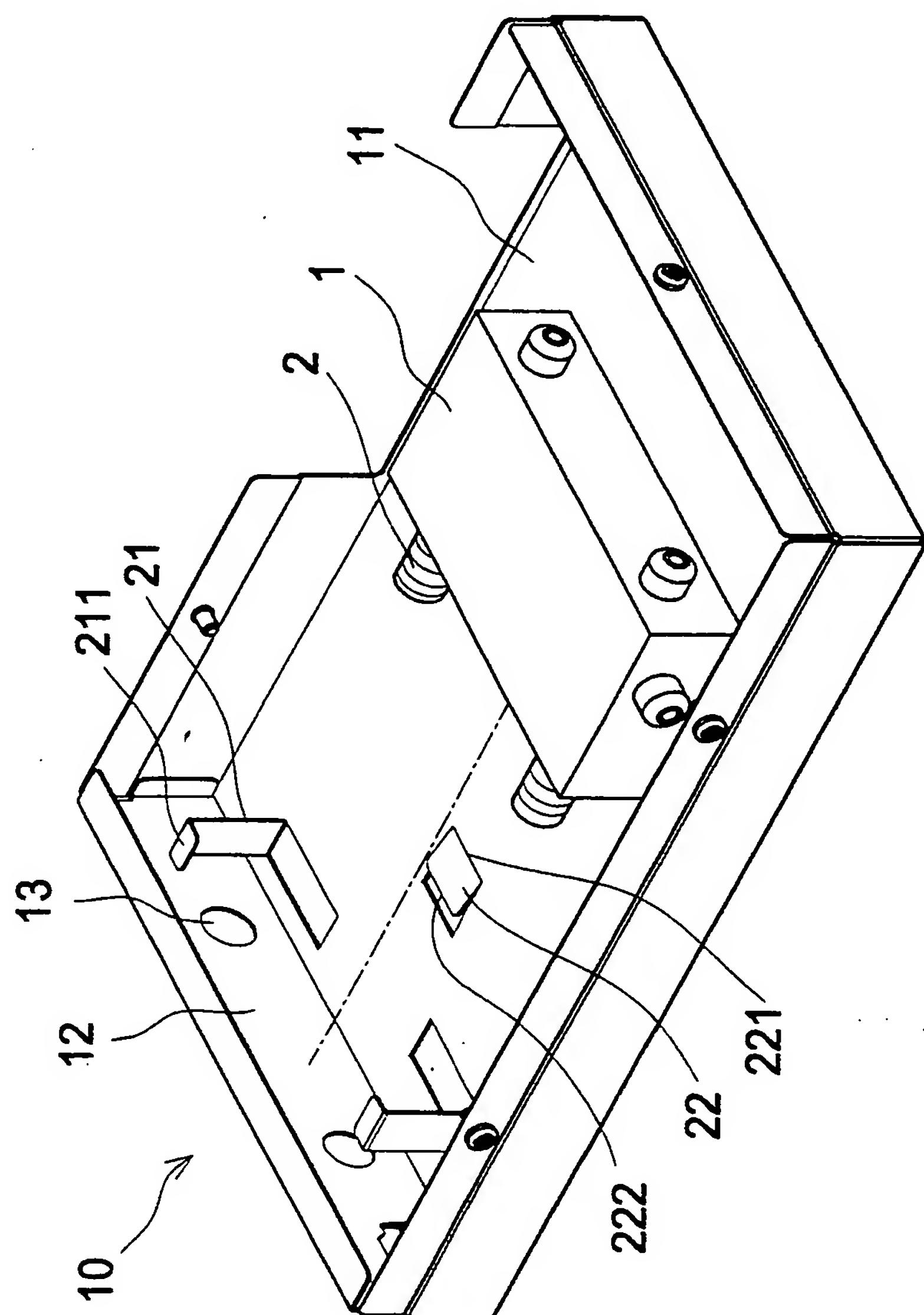




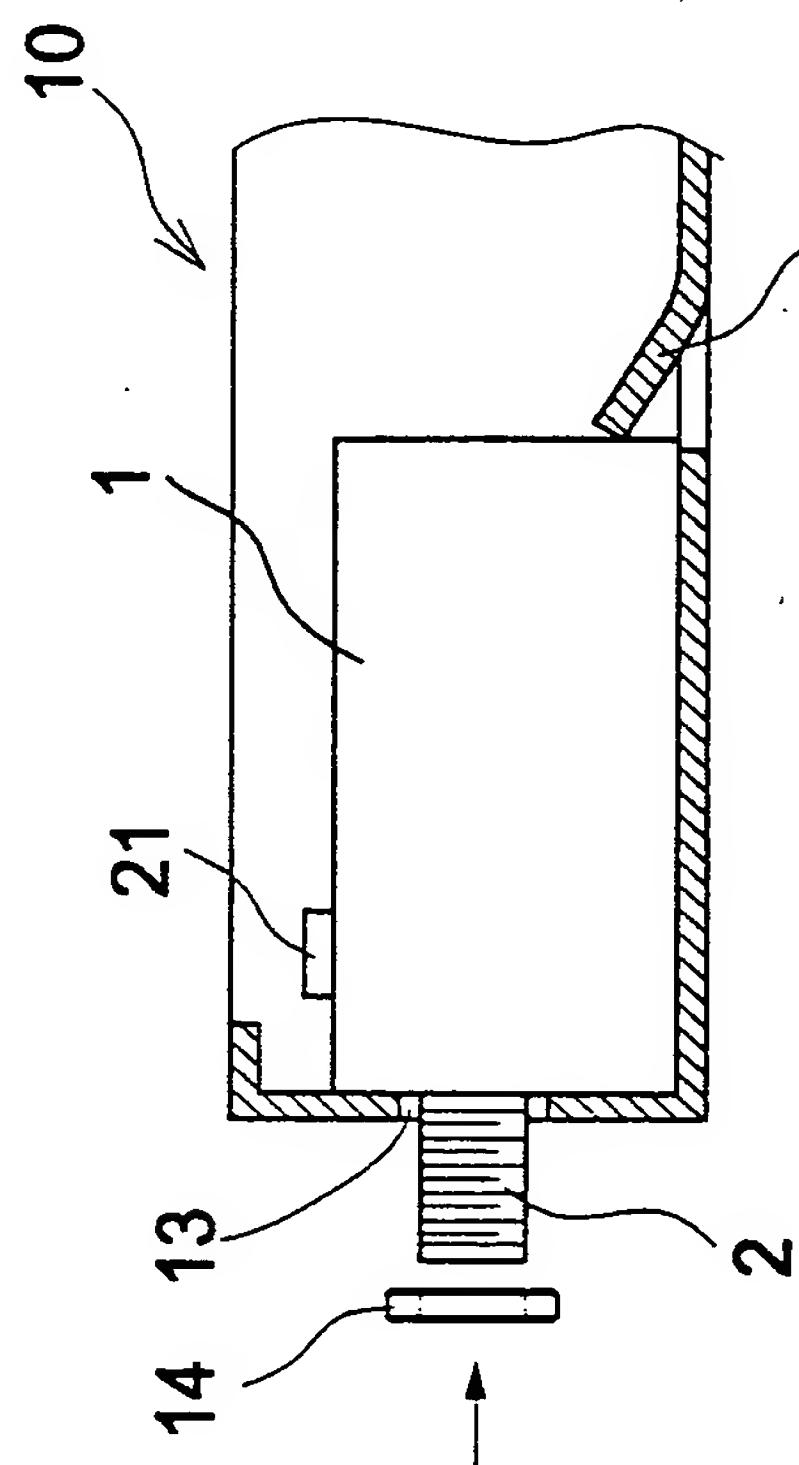
第2圖



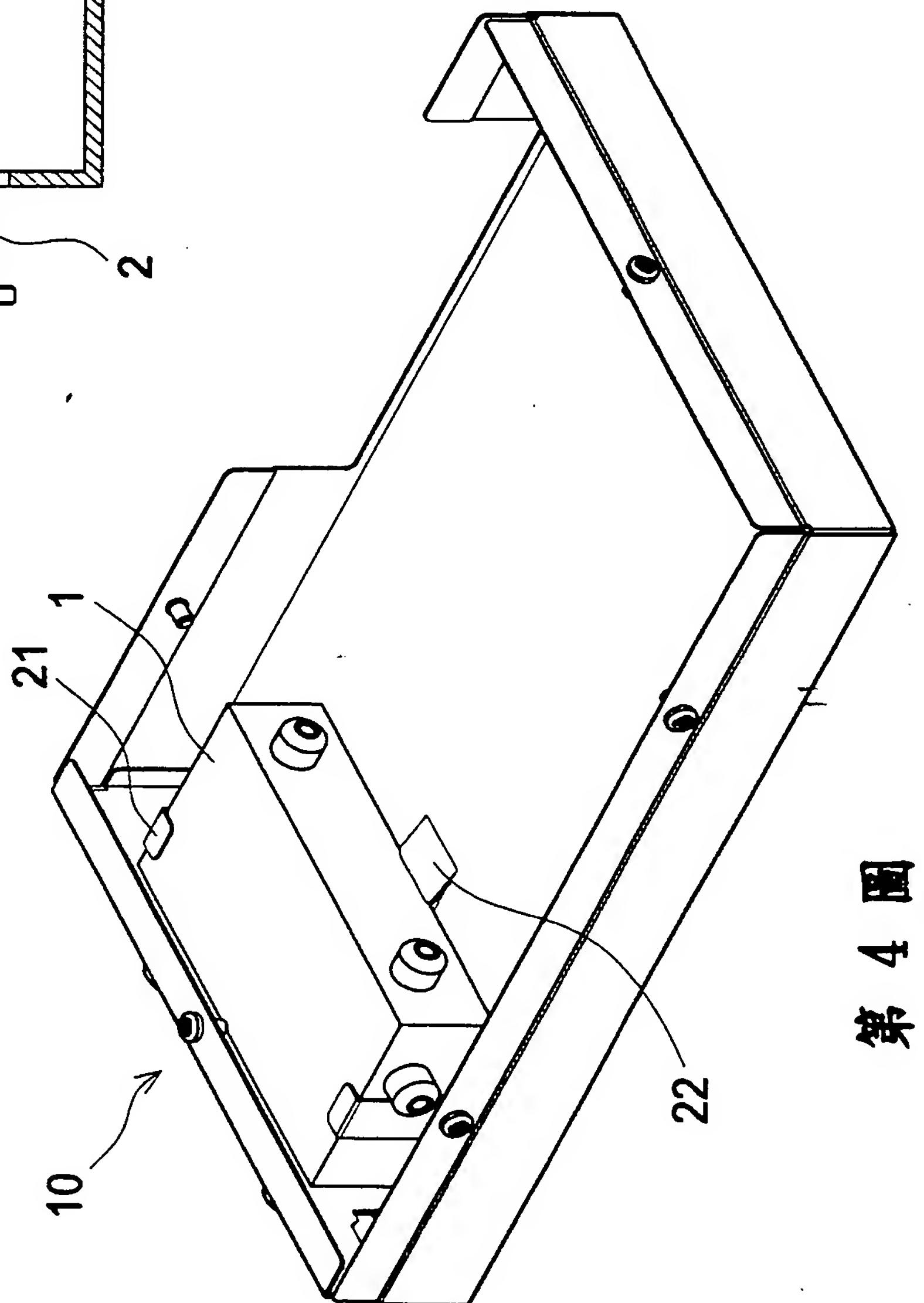
第1圖



第3圖

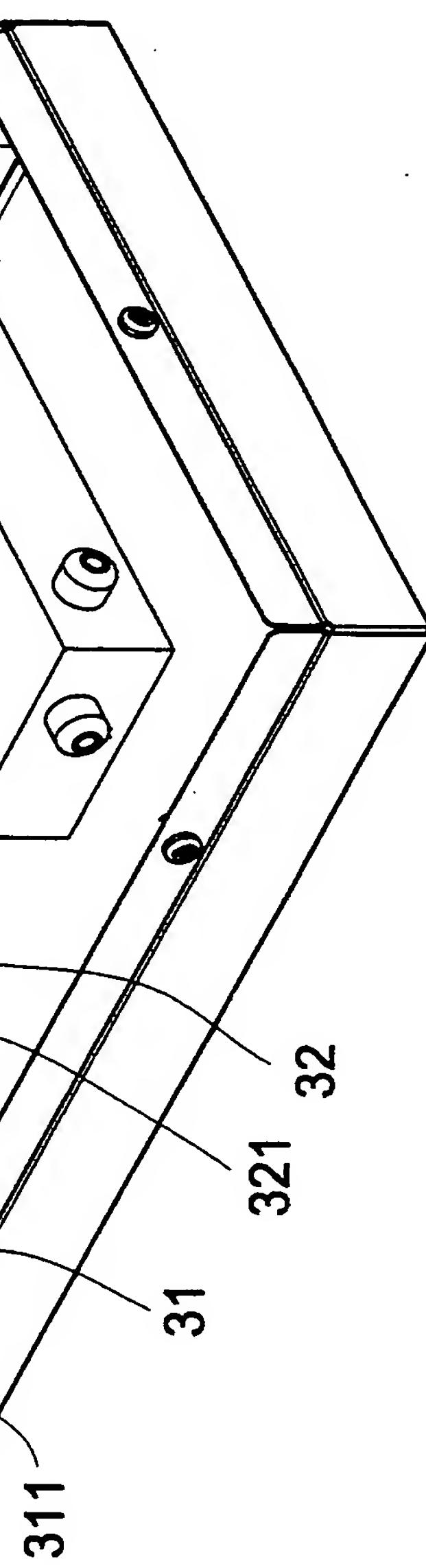


第5圖

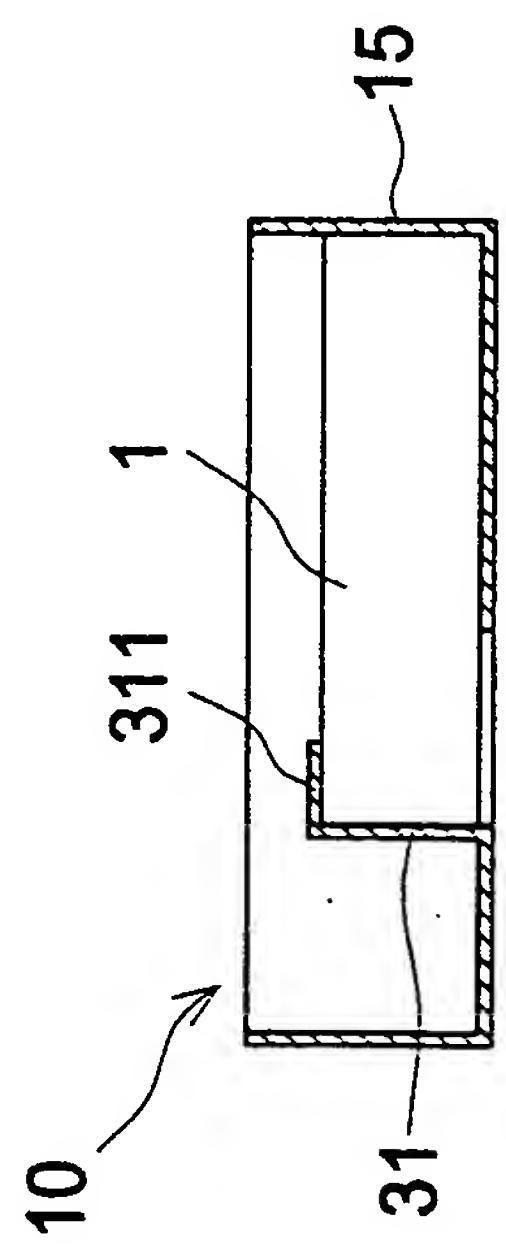


第4圖

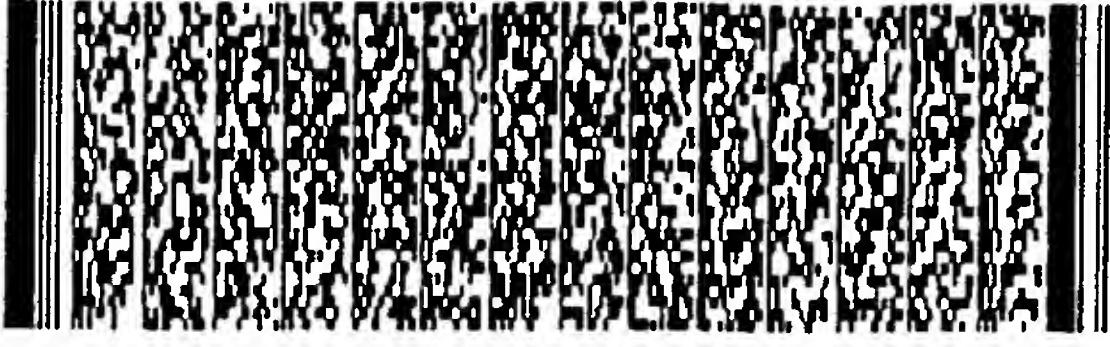
第6圖



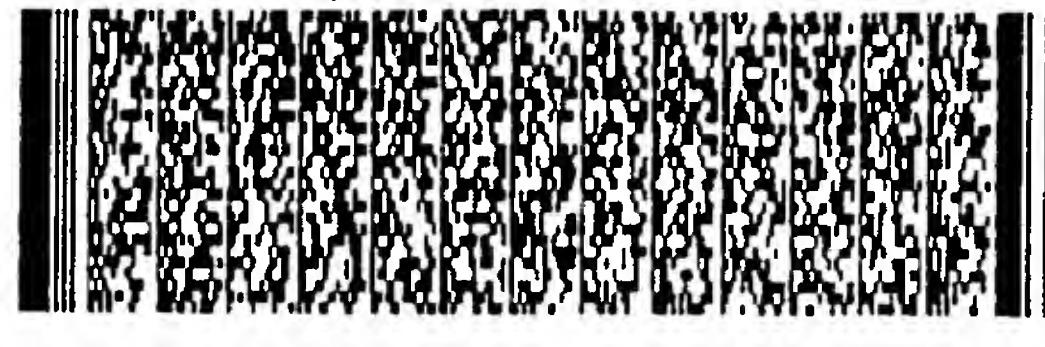
第7圖



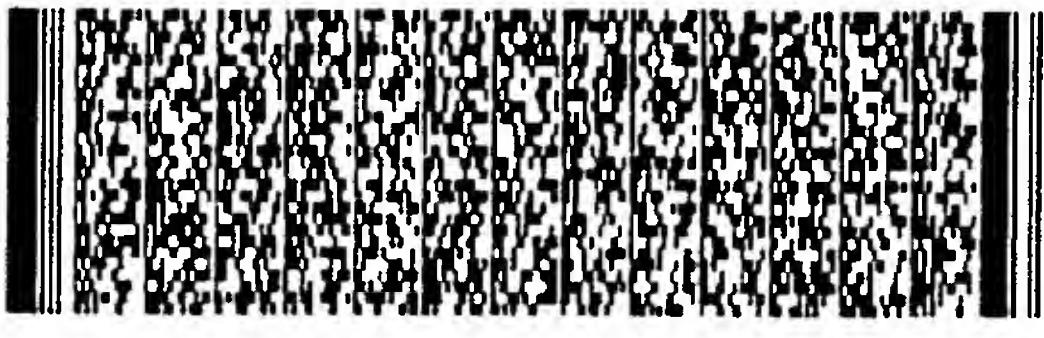
第 1/13 頁



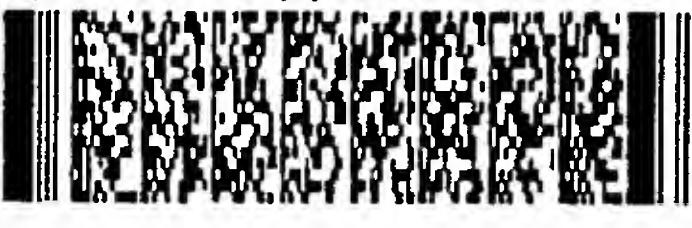
第 2/13 頁



第 2/13 頁



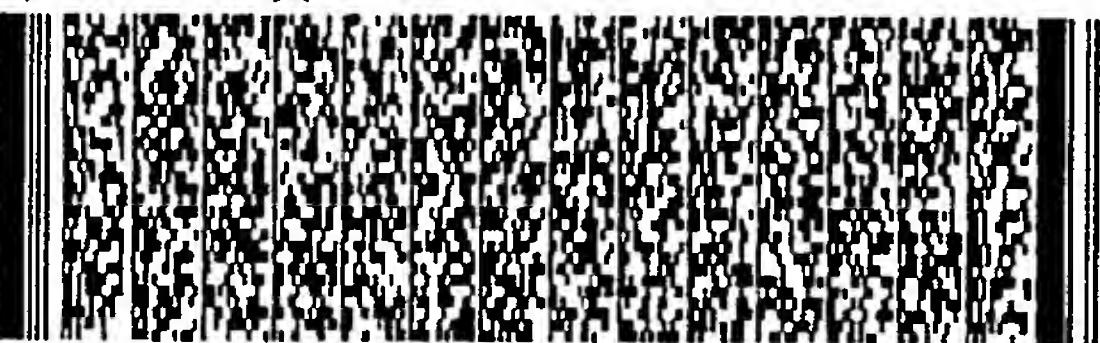
第 4/13 頁



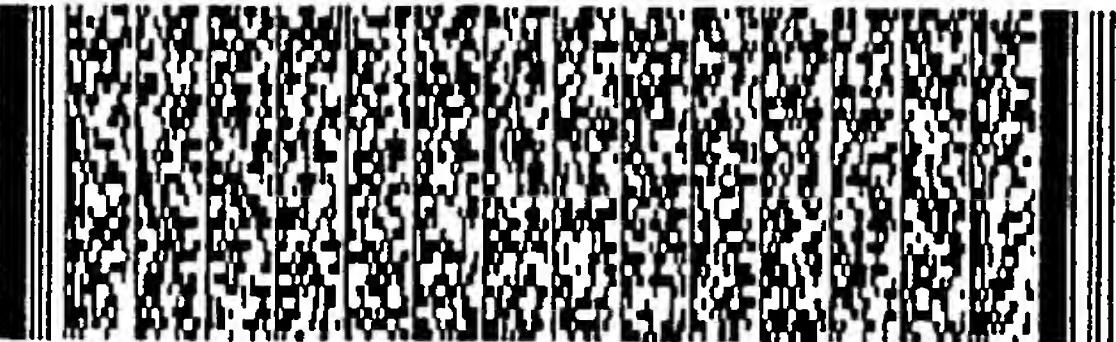
第 5/13 頁



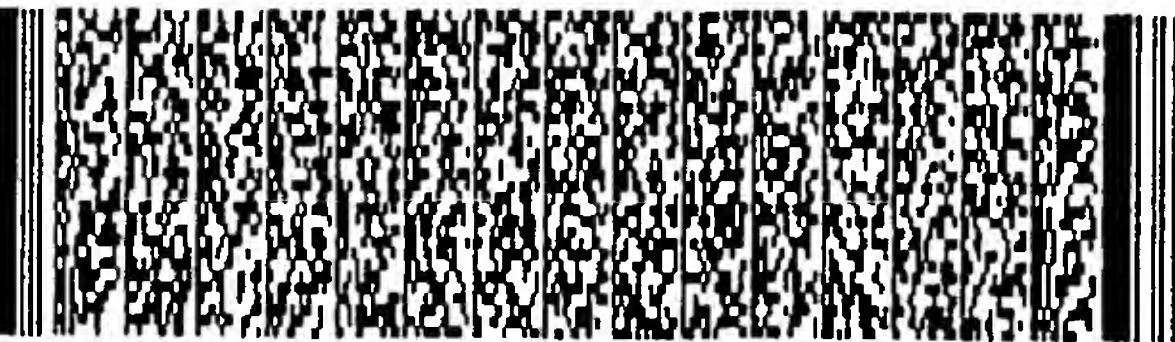
第 6/13 頁



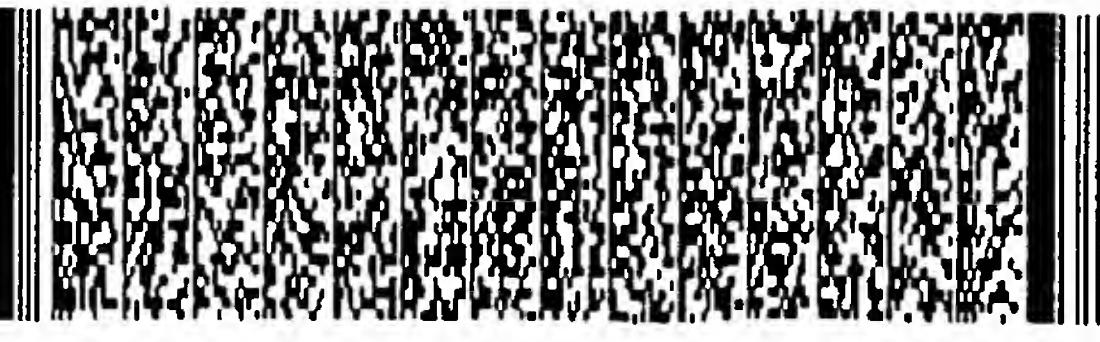
第 7/13 頁



第 8/13 頁



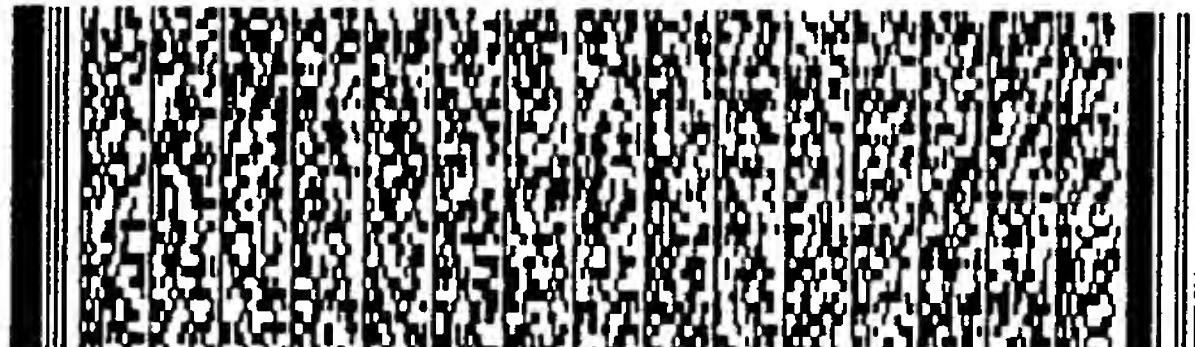
第 10/13 頁



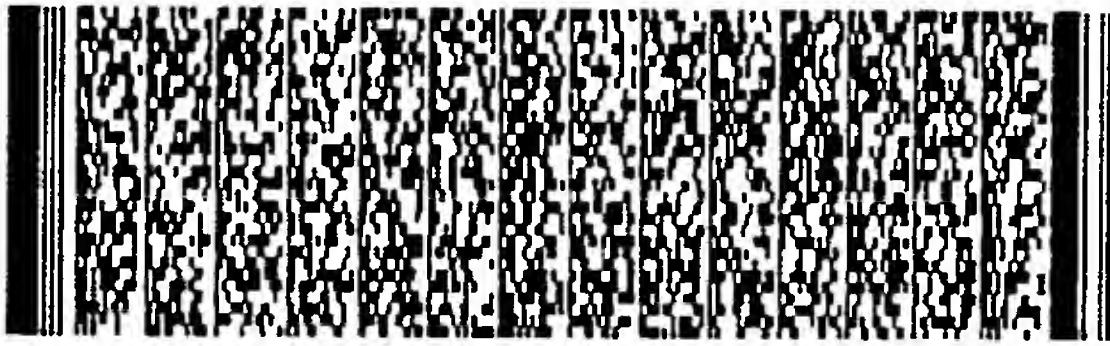
第 3/13 頁



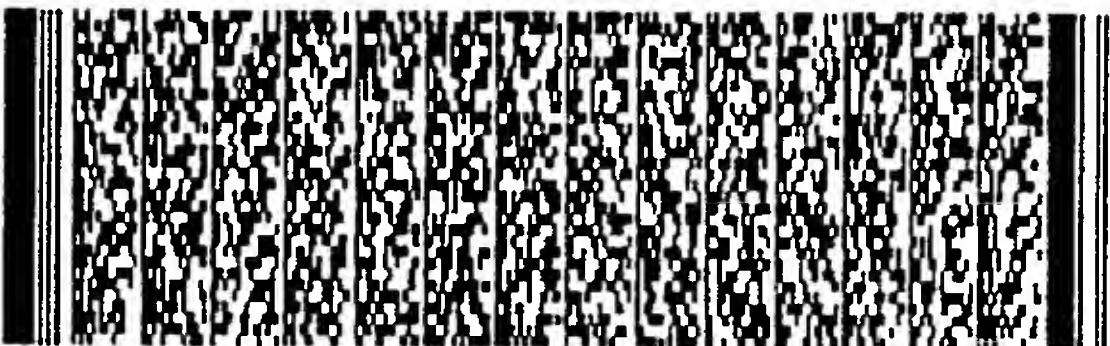
第 5/13 頁



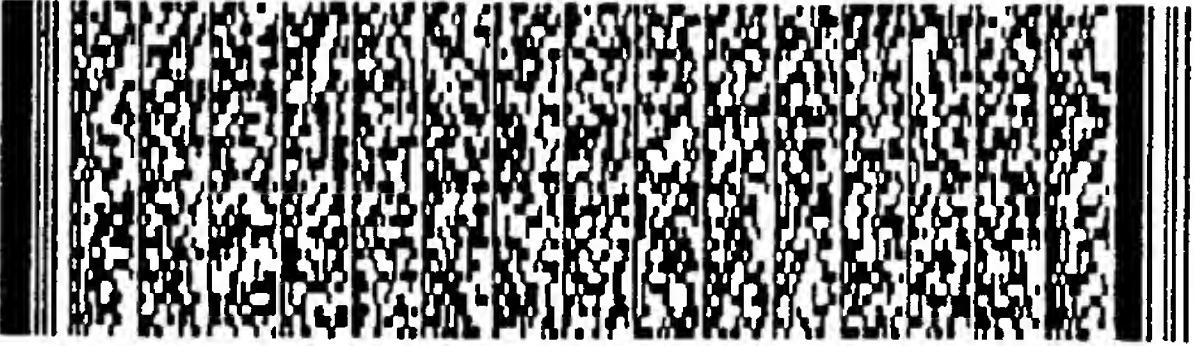
第 6/13 頁



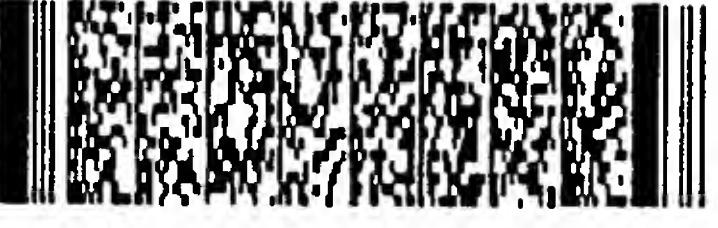
第 7/13 頁



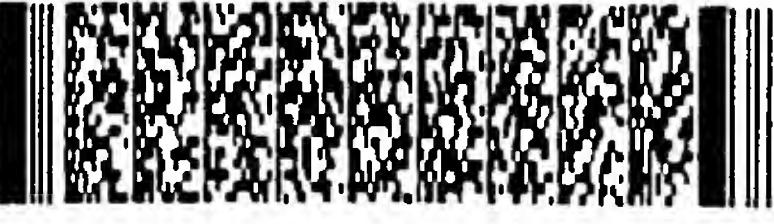
第 8/13 頁



第 9/13 頁

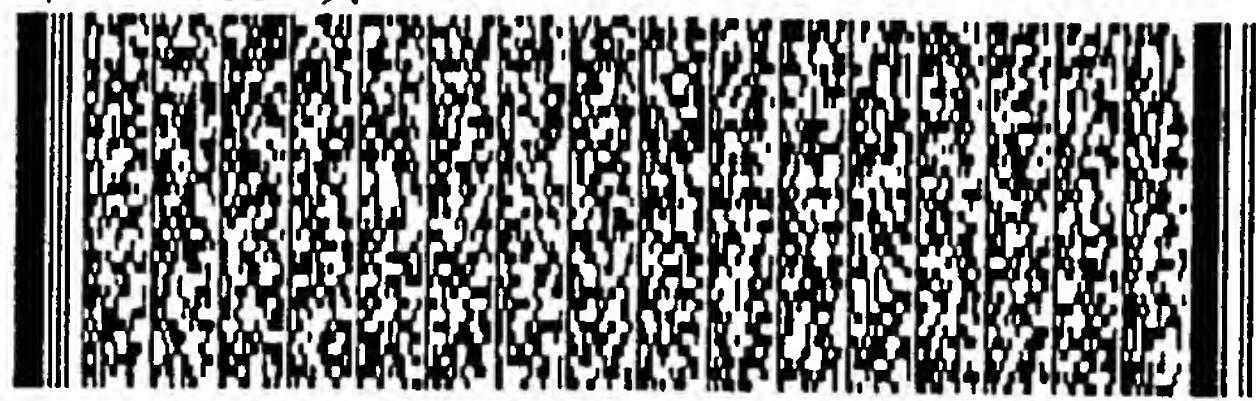


第 11/13 頁



申請案件名稱:固定結構

第 12/13 頁



第 13/13 頁

